

In the Claims:

Please amend claims 1-22 as follows:

1. (Currently amended) A write and/or erase method ~~adapted to~~for a storage apparatus ~~having a function of changing a write and/or erase power of which writes and/or erases information by irradiating a light beam with respect to a target track on a recording medium, comprising the steps of:~~

(a) setting a write and/or erase power of the light beam depending on a region of the recording medium where the target track is located; and

(b) changing a write and/or erase slice level for detecting an off-track of the light beam with respect to each track on the recording medium depending on the write and/or erase power.

2. (Currently amended) The write and/or erase method as claimed in claim 1, wherein said step ~~(a)~~(b) decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power.

3. (Currently amended) The write and/or erase method as claimed in claim 1, wherein said step ~~(a)~~(b) also ~~sets~~changes an off-track detection time constant depending on the write and/or erase power.

4. (Currently amended) The write and/or erase method as claimed in claim 1, wherein said step ~~(a)~~(b) also ~~sets~~changes a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

5. (Currently amended) A write and/or erase method ~~adapted to~~for a storage apparatus ~~having a function of changing a write and/or erase power of which~~
writes and/or erases information by irradiating a light beam with respect to a target track
on a recording medium, comprising the steps of:

(a) setting a write and/or erase power of the light beam depending on a region of the recording medium where the target track is located; and

(b) changing a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus with respect to each track on the recording medium depending on the write and/or erase power.

6. (Currently amended) The write and/or erase method as claimed in claim 5, wherein said step ~~(a)~~(b) decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power ~~or~~;

7. (Currently amended) The write and/or erase method as claimed in claim 5, wherein said step ~~(a)~~(b) also ~~sets~~changes an off-track detection time constant depending on the write and/or erase power.

8. (Currently amended) The write and/or erase method as claimed in claim 5, wherein said step ~~(a)~~(b) also ~~sets~~changes a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

9. (Currently amended) A write and/or erase method ~~adapted to for~~ a storage apparatus ~~having a function of changing a write and/or erase power of which~~ writes and/or erases information by irradiating a light beam with respect to a target track on recording medium, comprising the steps of:

(a) setting a write and/or erase power of the light beam depending on a region of the recording medium where the target track is located; and

changing at least one parameter selected from write and/or erase parameters depending on the write and/or erase power, said write and/or erase parameters including a write and/or erase slice level for detecting an off-track of the light beam with respect to ~~a~~each track on the recording medium, an off-track detection time constant, a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus, and a shock detection time constant for detecting the external vibration or shock.

10. (Currently amended) The write and/or erase method as claimed in claim 9, wherein a dependency ~~of~~with which the write parameters are changed with respect to the write power is different from a dependency ~~of~~with which the erase parameters are changed with respect to the erase power.

11. (Currently amended) The write and/or erase method as claimed in claim 9, further comprising the step of:

(b)(c) judging a type of the recording medium,

said step (a)(b) being carried out when said step (b)(c) judges that the recording medium is a high-density recording medium.

12. (Currently amended) A storage apparatus ~~having a function of changing a write and/or erase power of~~which writes and/or erases information by irradiating a light beam with respect to a target track on a recording medium, comprising:

a setting section ~~for setting~~configured to set a write and/or erase power of the light beam depending on a region of the recording medium where the target track is located; and

a changing section configured to change a write and/or erase slice level for detecting an off-track of the light beam with respect to a~~each~~ track on the recording medium depending on the write and/or erase power.

13. (Currently amended) The storage apparatus as claimed in claim 12, wherein said ~~setting~~changing section decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power.

14. (Currently amended) The storage apparatus as claimed in claim 12, wherein said ~~setting~~changing section also ~~sets~~changes an off-track detection time constant depending on the write and/or erase power.

15. (Currently amended) The storage apparatus as claimed in claim 12, wherein said ~~setting~~changing section also ~~sets~~changes a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

16. (Currently amended) A storage apparatus ~~having a function of changing a write and/or erase power of~~which writes and/or erases information by irradiating a light beam with respect to a target track on a recording medium, comprising:
a setting section ~~for setting~~configured to set a write and/or erase power of the light beam depending on a region of the recording medium where the target track is located; and

a changing section configured to change a write and/or erase slice level for
detecting an external vibration or shock applied on the storage apparatus with respect to
aeach track on the recording medium depending on the write and/or erase power.

17. (Currently amended) The storage apparatus as claimed in claim 16,
wherein said ~~setting~~changing section decreases the write and/or erase slice level
depending on an increase of the write and/or erase power or, increases the write and/or
erase slice level depending on a decrease of the write and/or erase power.

18. (Currently amended) The storage apparatus as claimed in claim 16,
wherein said ~~setting~~changing section also ~~sets~~changes an off-track detection time
constant depending on the write and/or erase power.

19. (Currently amended) The storage apparatus as claimed in claim 16,
wherein said ~~setting~~changing section also ~~sets~~changes a shock detection time constant for
detecting an external vibration or shock depending on the write and/or erase power.

20. (Currently amended) A storage apparatus ~~having a function of~~
~~changing a write and/or erase power of~~which writes and/or erases information by
irradiating a light beam with respect to a target track on a recording medium, comprising:
a setting section ~~for setting~~configured to set a write and/or erase power of

the light beam depending on a region of the recording medium where the target track is located; and

a changing section configured to change at least one parameter selected from write and/or erase parameters depending on the write and/or erase power, said write and/or erase parameters including a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium, an off-track detection time constant, a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus, and a shock detection time constant for detecting the external vibration or shock.

21. (Currently amended) The storage apparatus as claimed in claim 20, wherein a dependency ~~of~~with which the write parameters are changed with respect to the write power is different from a dependency ~~of~~with which the erase parameters are changed with respect to the erase power.

22. (Currently amended) The storage apparatus as claimed in claim 20, further comprising:

a judging section ~~for judging~~configured to judge a type of the recording medium,

wherein said ~~setting section~~ ~~setting~~changing section changes said at least one parameter when said judging section judges that the recording medium is a high-density recording medium.